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L2	1	"6699699".pn.	USPAT	OR	OFF	2005/09/18 17:00
L3	3	streptomyces near10 (penicillin near2 expandase)	USPAT	OR	OFF	2005/09/18 17:03
L4	14	streptomyces near10 (deacetoxycephalosporin near2 synthase or synthetase)	USPAT	OR	OFF	2005/09/18 17:02
L5	15	L3 or L4	USPAT	OR	OFF	2005/09/18 17:02
L6	12	I5 and (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:03
L7	8173	(penicillin near2 expandase) or (deacetoxycephalosporin near2 synthase or synthetase)	USPAT	OR	OFF	2005/09/18 17:04
L8	245	I7 near8 (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:05
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(SYNTHASE OR  
SYNTHETASE))

=> s streptomyces (8A) (penicillin (2A) expandase)

L2 9 STREPTOMYCES (8A) (PENICILLIN (2A) EXPANDASE)

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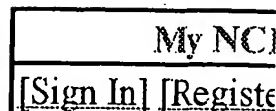
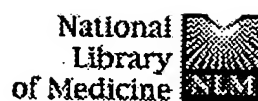
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☐ 2: Chin HS, Goo KS, Sim TS.

Related Articles, Links

A complete library of amino acid alterations at N304 in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase elucidates the basis for enhanced penicillin analogue conversion.  
Appl Environ Microbiol. 2004 Jan;70(1):607-9.  
PMID: 14711695 [PubMed - indexed for MEDLINE]

☐ 3: Chin HS, Sim TS.

Related Articles, Links

C-terminus modification of *Streptomyces clavuligerus* deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity.  
Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.  
PMID: 12083766 [PubMed - indexed for MEDLINE]

☒ 4: Chin HS, Sim J, Sim TS.

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Mutation of N304 to leucine in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase creates an enzyme with increased penicillin analogue conversion.  
Biochem Biophys Res Commun. 2001 Sep 21;287(2):507-13.  
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☒ 5: Lee HJ, Lloyd MD, Harlos K, Clifton LJ,  
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Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS).  
J Mol Biol. 2001 May 18;308(5):937-48.

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Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase for catalysis.

Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.

PMID: 10830499 [PubMed - indexed for MEDLINE]

☒ 7: [Lee HJ, Lloyd MD, Harlos K, Schofield CJ.](#)

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The effect of cysteine mutations on recombinant deacetoxycephalosporin C synthase from *S. clavuligerus*.

Biochem Biophys Res Commun. 2000 Jan 7;267(1):445-8.

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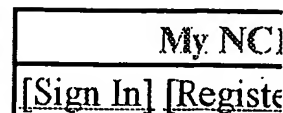
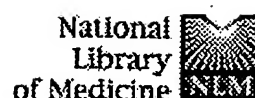
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Conformational flexibility of the C terminus with implications for substrate binding and catalysis revealed in a new crystal form of deacetoxycephalosporin C synthase.

J Mol Biol. 2004 Oct 8;343(1):157-71.

PMID: 15381427 [PubMed - indexed for MEDLINE]

2: Lloyd MD, Lipscomb SJ, Hewitson KS, Hensgens CM, Baldwin JE, Schofield CJ. Related Articles, Links

Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase.

J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20.

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3: Lee HJ, Dai YF, Shiau CY, Schofield CJ, Lloyd MD. Related Articles, Links

The kinetic properties of various R258 mutants of deacetoxycephalosporin C synthase.

Eur J Biochem. 2003 Mar;270(6):1301-7.

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4: Chin HS, Sim TS. Related Articles, Links

C-terminus modification of Streptomyces clavuligerus deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity.

Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.

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5: Lipscomb SJ, Lee HJ, Mukherji M, Baldwin JE, Schofield CJ, Lloyd MD. Related Articles, Links



The role of arginine residues in substrate binding and catalysis by deacetoxycephalosporin C synthase.

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Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase.

Acta Crystallogr D Biol Crystallogr. 2001 Dec;57(Pt 12):1776-85.

Epub 2001 Nov 21.

PMID: 11717489 [PubMed - indexed for MEDLINE]



7: [Lee HJ](#), [Lloyd MD](#), [Harlos K](#), [Clifton IJ](#), [Baldwin JE](#), [Schofield CJ](#). Related Articles, Links



Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS).

J Mol Biol. 2001 May 18;308(5):937-48.

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Alteration of the co-substrate selectivity of deacetoxycephalosporin C synthase. The role of arginine 258.

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PMID: 11279000 [PubMed - indexed for MEDLINE]



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Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in Streptomyces clavuligerus deacetoxycephalosporin C synthase for catalysis.

Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.

PMID: 10830499 [PubMed - indexed for MEDLINE]



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Studies on the active site of deacetoxycephalosporin C synthase.

J Mol Biol. 1999 Apr 16;287(5):943-60.

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- ☐ **11:** [Valegard K, van Scheltinga AC, Lloyd MD, Hara T, Ramaswamy S, Perrakis A, Thompson A, Lee HJ, Baldwin JE, Schofield CJ, Hajdu J, Andersson I.](#) Related Articles, Links



Structure of a cephalosporin synthase.

Nature. 1998 Aug 20;394(6695):805-9.

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- ☐ **12:** [Alvi KA, Reeves CD, Peterson J, Lein J.](#) Related Articles, Links



Isolation and identification of a new cephem compound from *Penicillium chrysogenum* strains expressing deacetoxycephalosporin C synthase activity.

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